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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,136	10/06/2003	Shinichiro Goto	107439-00098	1080

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ARENT FOX KINTNER PLOTKIN & KAHN, PLLC
Suite 400
1050 Connecticut Avenue, N.W.
Washington, DC 20036-5339

EXAMINER

SHIU, HO T

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/678,136	Applicant(s) GOTO, SHINICHIRO	
	Examiner HO SHIU	Art Unit 2457	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 June 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 11-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-2, and 11-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-2, and 11-14 are pending in this application.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kolls (US Patent # 7,003,289, hereinafter Kolls) in view of Bereznyi et al (US Patent # 6,449,695 B1, hereinafter Berez) and in further view of Singh (US Patent # 6,665,704, hereinafter Singh) and in further view of Asami (US Pub # 2003/0124974, hereinafter Asami).**

4. With respect to claim1, Kolls discloses a client-server vehicle data communication system, comprising: a server (col. 6, lines 25-34); a service contents managing section for managing a plurality of service contents to be provided to a client terminal of a vehicle, wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration time in the client terminal, so as to manage the data cache stored duration time of the service content

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(col. 6, lines 44-63), wherein the client terminal uses the server, and a cache state managing section for managing the data cache stored duration time of the service content is provided from the server according to the cache identifier assigned to the service content (col. 6, lines 45-63); and a request sending section for sending a request signal for the service content to the server, where the server content is provided from the server when the request signal is received by the server (col. 51, lines 12-52, col. 26, lines 41-58); wherein the cache identifier indicates a condition for caching of the service content (col. 51, lines 12-52, col. 26, lines 41-58) but does not clearly disclose wherein when a request for the service content is again issued in the client terminal while the condition for the caching is satisfied and the service content is cached in a memory of the client terminal, the service content in the memory is read out without sending the request signal for the service content to the server.

However, in the same field of endeavor, Berez discloses wherein when a request for the service content is again issued in the client terminal while the condition for the caching is satisfied and the service content is cached in a memory of the client terminal, the service content in the memory is read out without sending the request signal for the service content to the server (abstract, col. 1, lines 12-26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Kolls with wherein when a request for the service content is again issued in the client terminal while the condition for the caching is satisfied and the service content is cached in a memory of the client terminal, the service content in the memory is read out without sending the request

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signal for the service content to the server as disclosed in Berez in order to avoid the need to download the same data again from the data source (col. 1, lines 12-26). One of ordinary skill in art would have been motivated to incorporate the teachings of one another to establish a more efficient system by minimizing the amount of data that is needed to transfer.

Although Kolls discloses the ability to cache data can allow a COM device to hold data at a plurality of Com device locations until the appropriate time, it doesn't explicitly define what exactly that appropriate time is.

In the same field of endeavor, Singh discloses a cache identifier which indicates a data cache stored duration time in the client terminal, so as to manage the data cache stored duration time of the service content, (col. 4, lines 40-56), wherein the client terminal uses the server, and a cache state managing section for managing the data cache stored duration time of the service content is provided from the server according to the cache identifier assigned to the service content (col. 4, lines 40-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Kolls and Berez with the appropriate time as disclosed in Singh in order to retrieve information from a server process for a client process. One of ordinary skill in the art would have been motivated to incorporate the teachings with one another to determine when the data in the client process is too old and needs to be removed.

Although Kolls, Berez, and Singh disclose the claimed invention, they do not clearly disclose a client terminal of a vehicle, wherein the server includes: a service

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contents storage section for storing a plurality of service contents to be provided to the client terminal, where the service contents are classified into categories defined according to a need for data update; and a service contents managing section for managing the service contents, wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration tie in the client according to the categories, so as to manage the data cached stored duration time of the service content.

In the same field of endeavor, Asami discloses a client terminal of a vehicle ([0037]), wherein the server includes: a service contents storage section for storing a plurality of service contents to be provided to the client terminal ([0031]), where the service contents are classified into categories defined according to a need for data update ([0027]); and a service contents managing section for managing the service contents, wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration tie in the client according to the categories, so as to manage the data cached stored duration time of the service content ([0166], [0182], [0186], [0190]), wherein the client includes: a cache state managing section for managing the data cache stored duration time of the service content is provided from the server according to the cache identifier assigned to the service content ([0182], [0186], [0189], [0190]); and a request sending section for sending a request signal for the service content to the server, where the service content

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is provided from the server when the request signal is received by the server ([0051]), wherein the cache identifier indicates a condition for caching of the service content ([0182]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Kolls, Berez, and Singh with a client terminal of a vehicle, wherein the server includes: a service contents storage section for storing a plurality of service contents to be provided to the client terminal, where the service contents are classified into categories defined according to a need for data update; and a service contents managing section for managing the service contents, wherein the service contents managing section includes a cache identifier providing section for assigning each service content provided to the client terminal a cache identifier which indicates a data cache stored duration tie in the client according to the categories, so as to manage the data cached stored duration time of the service content as disclosed in Asami in order to retrieve information from a server process for a client process that is using a navigation system. One of ordinary skill in the art would have been motivated to incorporate the teachings with one another to establish a more versatile system by being able to send information by categories so since not all information are used in the same way and in which some information need to be updated more frequently.

5. Claims 2, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kolls in view of Berez in view of Singh in view of Asami and in

further view of Irons et al. (US Patent # 5,999,876, hereinafter Irons).

6. With respect to claim 2, Kolls, Berez, and Singh does not clearly disclose the assigned cache identifier is selected from a group comprising: an identifier for indicating that the service content is not stored in the client terminal; an identifier for indicating that the service content is temporarily stored until an engine of the vehicle is stopped; an identifier for indicating that the service content is stored even after the engine of the vehicle is stopped; an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value; and an identifier for indicating that the service content is stored from when the vehicle obtains the service content until a predetermined time has elapsed.

However, in the same field of endeavor, Irons discloses the assigned cache identifier is selected from a group comprising: an identifier for indicating that the service content is not stored in the client terminal; an identifier for indicating that the service content is temporarily stored until an engine of the vehicle is stopped; an identifier for indicating that the service content is stored even after the engine of the vehicle is stopped (col. 3, lines 20-26); an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value; and an identifier for indicating that the service content is stored from when the vehicle obtains the service content until a predetermined time has elapsed.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kolls, Berez, and Singh with the teachings of Irons in order to establish a time when data can be retrieved so that an adequate time for all of the data caches to be stored or reset is provided (col. 8, lines 7-17).

In addition, Asami discloses an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value ([0126]); and an identifier for indicating that the service content is stored from when the vehicle obtains the service content until a predetermined time has elapsed ([0125]).

7. With respect to claim 11, it is rejected for the same reasons as claim 2 above. In addition, Irons discloses wherein the cache state managing section deletes data of the service content stored in the memory of the client terminal based on the cache identifier (col. 5, lines 16-24).

8. With respect to claim 12, Kolls discloses wherein the assigned cache identifier is an identifier for indicating that the service content is not stored in the client terminal (col. 5, lines 12-52). In addition, Asami discloses wherein the assigned cache identifier is an identifier for indicating that the service content is not stored in the client terminal ([0167], when it determines that there is newer information than what is stored in the receiver-

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side).

9. With respect to claim 13, it is rejected for the same reasons as claim 2 above. In addition, Irons discloses wherein the assigned cache identifier is an identifier for indicating that the service content is temporarily stored until an engine of the vehicle is stopped (abstract, col. 3, lines 20-26).

10. **Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kolls in view of Berez in view of Singh and in view of Asami and in further view of Desens et al. (US Patent # 6,097,314, hereinafter Desens).**

11. With respect to claim 14, Kolls, Berez, and Singh does not clearly disclose wherein the assigned cache identifier is an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value.

However, in the same field of endeavor, Desens discloses wherein the assigned cache identifier is an identifier for indicating that the service content is stored while a travel distance of the vehicle from where the vehicle obtained the service content is within a predetermined value (col. 2, lines 37-45).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Kolls, Berez, and Singh with the

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teachings of Desens in order to limit the required storage capacity site for storing the data.

In Addition, Asami discloses wherein the assigned cache identifier is an identifier for indicating that the service content is stored while a travel distance o the vehicle from where the vehicle obtained the service content is within a predetermined value ([0126]).

Response to Arguments

12. Applicant's arguments, with regards to claims 1-2, and 11-14 have been considered by are moot in view of the new ground(s) of rejection.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HO SHIU whose telephone number is (571)270-3810.

The examiner can normally be reached on Mon-Thur (8:30am - 4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HTS
09/09/2009

Ho Ting Shiu
Patent Examiner
GAU 2457

/ARIO ETIENNE/

Supervisory Patent Examiner, Art Unit 2457